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CONTROL NO. Z-12708/83

(NPIC/IEG) (7/83)

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Warning Notice
Intelligence Sources and Methods Involved
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DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
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1 JULY 1983

MODIFIED GRILL PAN RADAR
EMBA MISSILE TEST CENTER LAUNCH COMPLEX, USSR (SWN)

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1. SIGNIFICANCE: A MODIFIED GRILL PAN RADAR WITH A LARGER ANTENNA SCREEN WAS IDENTIFIED AT LAUNCH AREA C OF THE EMBA MISSILE TEST CENTER LAUNCH COMPLEX ON [REDACTED] (SWN) 25X1
2. REMARKS: THE ANTENNA SCREEN OF THE MODIFIED GRILL PAN IS [REDACTED] IN HEIGHT, [REDACTED] HIGHER THAN THE ORIGINAL GRILL PAN RADAR. IT IS [REDACTED] IN WIDTH, THE SAME AS THE GRILL PAN. THE LARGER ANTENNA SCREEN IS APPARENTLY MOUNTED ON THE SAME ANTENNA TURNTABLE AND CHASSIS AS THE ORIGINAL GRILL PAN. THE THREE LIGHT-TONED PROBABLE ELECTRONICS COUNTERMEASURES DEVICES WHICH ARE ATTACHED TO THE BOTTOM OF THE GRILL PAN ANTENNA SCREEN ARE NOT PRESENT ON THE MODIFIED GRILL PAN. THE MODIFIED GRILL PAN PROBABLY HAS AN OVAL-SHAPED ANTENNA APERTURE WHILE THE GRILL PAN HAS A CIRCULAR ONE. ON [REDACTED] THE ANTENNA SCREEN WAS ERECTED AT AN ANGLE OF 60 DEGREES. (SWN) 25X1

PREPARATIONS FOR THE ARRIVAL OF THE MODIFIED GRILL PAN BEGAN DURING OCTOBER 1982. THE GRILL PAN RADAR, NORMALLY AT PAD C-4, WAS REMOVED DURING THAT TIME. PREVIOUSLY, TWO GRILL PAN RADARS WERE AT EMBA, ONE AT PAD C-4, THE OTHER AT PAD C-3. PAD C-4 REMAINED VACANT UNTIL [REDACTED] WHEN ADDITIONAL ELECTRONICS/COMPUTER VANS AND WORK PLATFORMS WERE INSTALLED AT THE PAD. THE MODIFIED GRILL PAN RADAR MAY HAVE BEEN PRESENT IN THE TRAVEL MODE AT PAD C-4 AS EARLY AS [REDACTED] THE MODIFIED GRILL PAN WITH ITS ANTENNA SCREEN IN THE ERECTED POSITION WAS FIRST OBSERVED ON [REDACTED] [REDACTED] ALTHOUGH IMAGE INTERPRETABILITY PRECLUDED ITS IDENTIFICATION. SINCE THEN, THE MODIFIED GRILL PAN HAS REMAINED AT PAD C-4 WITH THE ANTENNA SCREEN ERECTED, EXCEPT ON [REDACTED] WHEN IT WAS IN THE TRAVEL MODE. A GRILL PAN RADAR REMAINS AT PAD C-3. (SWN) 25X1

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ANALYST'S COMMENTS -- THE MODIFICATION OF THE GRILL PAN RADAR AT LAUNCH AREA C MAY BE RELATED TO THE LARGE-SCALE EMBA-03 SUBSYSTEM TEST/EXERCISE WHICH HAS BEEN UNDERWAY AT LAUNCH AREA C SINCE EARLY MARCH. IT COULD ALSO BE RELATED TO THE TESTING OF THE EMBA-04 SUBSYSTEM. THE ORIGINAL GRILL PAN IS ASSESSED TO BE THE TARGET ENGAGEMENT RADAR FOR THE SA-X-12 SYSTEM WHICH INCLUDES THE EMBA-03 SUBSYSTEM, A HIGH-PERFORMANCE MEDIUM-RANGE SURFACE-TO-AIR MISSILE SYSTEM, AND THE EMBA-04 SUBSYSTEM WHICH IS EITHER A LONG RANGE SAM SYSTEM OR AN ANTITACTICAL BALLISTIC MISSILE SYSTEM. (SWN)

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3. [REDACTED] COORDINATES 48-31-02N 058-02-09E (S)

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